Arsenic Treatment Technology Vendors Forum
Wednesday, October 20, 2004
Albuquerque, New Mexico

Participating Vendors

Company Name	Presenter	Type of Technology	Description of Technology by Vendor
APW Inc.	Nitin Kohli	GFO & Ti02 Media	We have two products; one is Adsorb (Ferric Hydroxide) and the other is Hedulit (Titanium Oxhydrate). These products, as of now, are being manufactured in Germany where they have been tested and used for years with ground and industrial waters. Our testing facility is in the University of Nevada, Reno. Our preliminary results have been very encouraging. Our main goal is to apply this low cost and highly efficient filter media in the U.S. as there is a huge demand for these media.
ANCECO Corporation	Alexander Blake	C/F	Water is entered into an ANCECO treatment system where a pre-determined dosage of ABCEL/ANCEL, non-toxic, chemical is added to the water which is then agitated for 4 minutes. The contaminants are adsorbed onto the chemical phase, the supernatant and sludge are discharged.
Aqua Systems, LLV	C.W. Sampson	C/F	A patented system of de-contamination that identifies, neutralize, and removes contaminants (arsenic) according to a formula tested by Lawrence Livermore National Lab, Cal State Fresno, and Montana Tech.
Dow Chemical	Jeff Onifer	TiO2 Media	Dow has developed a patent pending granular media that is being designed for single use operations based from technology developed at the Stevens Institute of Technology. Our internal testing has shown that this titanium based product, formulated in our development labs, shows an improved capacity for arsenic over commercially available iron-based media
EaglePicher Filtration & Minerals	Peter Lenz	La-Coated DE	The nano-crystalline media removes both arsenite and arsenate without the need for chemical pretreatment. The media is a ferric/lanthanum hydroxide compound deposited onto a diatomaceous earth sub-strate to provide a high surface area and more efficient removal. The arsenic also forms a permanent bonds with the media. Removal is irreversible.
Engelhard Corporation	Tom Shaniuk	GFO	With ARM 200, Engelhard introduces a safe, efficient and cost-effective water purification treatment for the removal of arsenic from water. Key advantages of ARM 200 include: Effective removal of low levels of arsenic from drinking water. Certified safe for drinking water use under NSF 61. Removal of both forms of AsIII & AsV with no preoxidation or pretreatment required. Demonstrated arsenic removal capacity of greater than 99% even in the presence of competing ions. Engelhard ARM 200 is a specially tailored adsorbent designed for use in household filters, industrial, and water utility filtration systems.
HydroFlo, Inc.	Dennis Mast	Cu-Oxide Media	not available, yet!
Isolux Technologies - Division of MEI	James Knoll	TiO2 Media	Isolux Arsenic Removal Technology - A patented adsorption technology based upon the long standing zirconium expertise of MEI. Attributes include; very quick kinetics, high adsorption capacity, no hazardous waste generation, no backwash, and "Returnable Cartridge" design.
Kemiron Companies, Inc.	Roderick Abinet	GFO	With our first generation Granular Ferric Hydroxide, we are not presenting a new technology. Rather, opening the doors to let in more competition to an already competitive Market. We do have one very significant advantage, we are a manufacturer, who plans to sell our bulk material directly to the Market. Furthermore, as one of the largest producers of coagulant chemicals in the United States and the world, we feel we can quickly establish ourselves as a viable option for Arsenic Removal Treatment.
Layne Christensen	Charlie Muir		not available, yet!
Multi-Pure Drinking Water Systems	Kenton Jones	GF0 - POU	Multi-Pure incorporates granular ferric oxide in a carbon block cartridge. These filters are designed for POU applications. The Multi-Pure carbon filter is the first and only product to be certified by NSF International under Standard 53 for Arsenic reduction.
Purolite	Francis Boodoo	Fe-IX Media	Adsorptive media based on Iron-impregnated Ion Exchange Resin. Equal or better capacity than competitive iron-based media. Simple lead-lag vessel operation No fines generation. No need for frequent backwash. Regenerable/Disposable - cost effective. Sluiceable for offsite regeneration. Suitable for Central, POE, POU, use, NSF-61 certified. Patent pending.
Stanford University ABF - Arsenic Biosand Filter	Sophie Walewijk	Bio-Filter	The ABF removal technology has won one of the 45 prizes for arsenic and bacteria removal at the World Bank Development Marketplace Competition last December. There were 2,500 applicants from 130 counties in the competition. It was the only arsenic treatment system to win a prize at the international development competition. Since then, we have continued our field work and are implementing the technology in the Terai region of Nepal.
Watts Premier	Shannon Murphy	RO	Zero Waste (point of use) Reverse Osmosis. Watts Premier has been working with small systems for arsenic and other contaminants through the use of, point of use, reverse osmosis. Incorporating the patented Zero Waste reverse osmosis, we have been able to reduce arsenic levels in small communities to non-detect.
Weber State University Utah Center of Excellence - Bio-Remediation Center	Jack Adams Ph.D	Bio	not available, yet!
ZENON Environmental, Inc.	Grant MacInnis	UF/Coag	This paper will present the application of immersed ultrafiltration membranes using enhanced coagulation for arsenic removal. It will also present pilot scale data including spike testing evaluating the significance of arsenic speciation and coagulation dosages for arsenic removal. It will also review basic design concepts for the layout of new/or the retrofit of existing treatment facilities.